0 035 66

Energy Data Logger

Installer manual

Energy IP data logger
Energy
Setup
Configuration
Line
Day Month Year
17 4 2012
Load the data
Hour [kWh]
1:00 1 991
2:00 1 442
3:00 1 557
4:00 1 479
5:00 2 839
6:00 2 266
7:00 1 47
8:00 2 932
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Instantaneous 0 kWh
Cumulative 49.83 kWh
Day
Month
Year

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1 Description

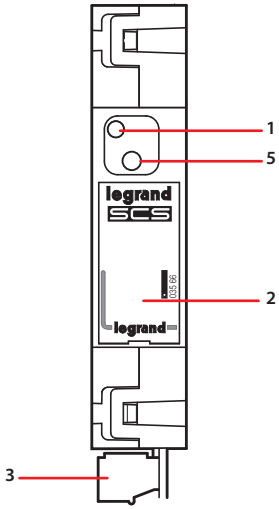
1.1 Warnings and recommendations

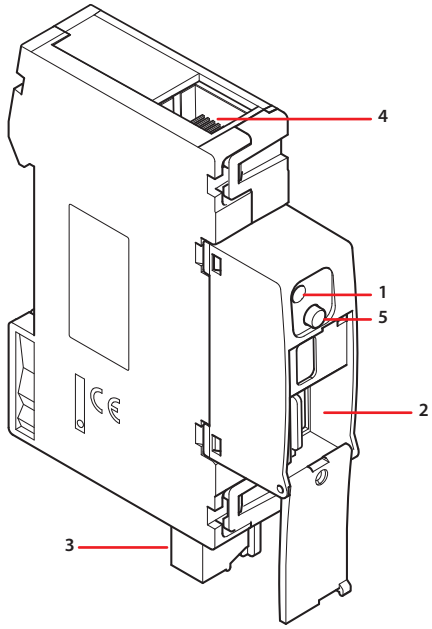
Before proceeding with the installation we recommend that you read the content of this manual very carefully.
The warranty will automatically become void in case of negligence, improper use, and tampering by unauthorised personnel.

1.2 Main functions

The SCS device saves the consumption values in separate energy lines. These lines can be both electric, by connecting Bus meters with 3 inputs for toroids, item F520, or a load management central unit, item F521, and non-electric, by connecting pulse counter interfaces, item 3522. The total number of lines managed cannot exceed 10.

1.3 Legend





1 - User interface LED: see table

2 - MicroSD memory card slot (optional)

3 - Connection to the SCS BUS

4 - Ethernet connection

5 - Reset key:
- press and hold for 10 seconds to restart the Energy Data Logger;
- press and hold for 20 seconds to restart the Energy Data Logger , and set the dynamic selection of the IP address.

User interface LEDs table

Red LED flashing slowly and regularly:	no network found; waiting for an address to be assigned.
Green LED flashing slowly and regularly:	device waiting to be configured.
Green LED flashing quickly and regularly:	time on the device not configured.
Green LED flashing slowly and irregularly:	device working and configured.
Red-green LED flashing quickly:	IP or microSD configuration error. Reset, check the configuration, and the microSD memory card model.

2.1 Wiring diagrams

To put the device into operation, this must be connected following the diagrams below.

Diagram with direct or crossover cable

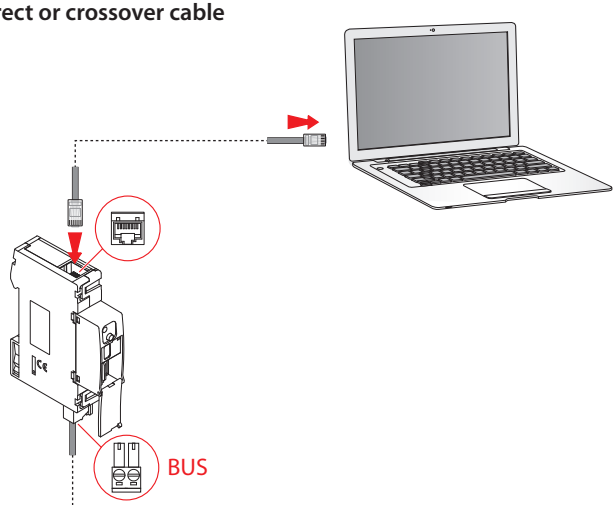
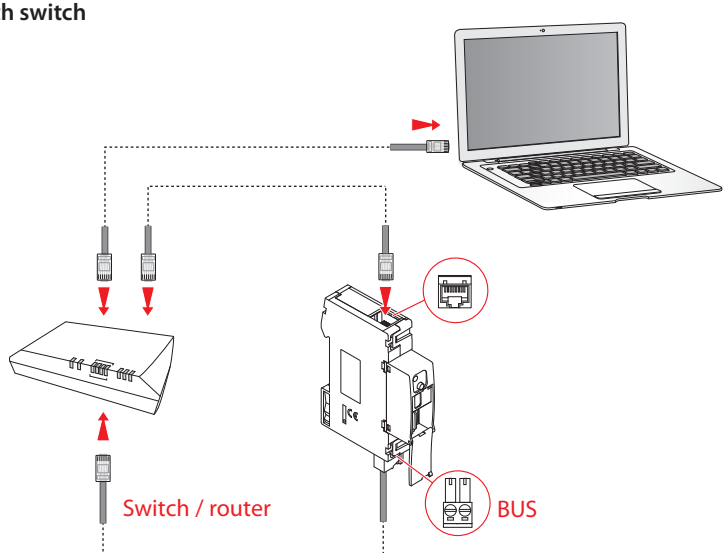


Diagram with switch

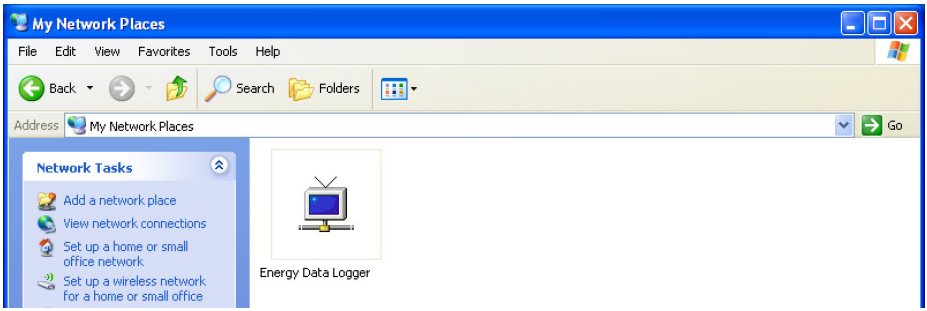


Check that your PC is set for automatic acquisition of the IP address (network parameters); then select the Energy Data Logger device among the network resources.

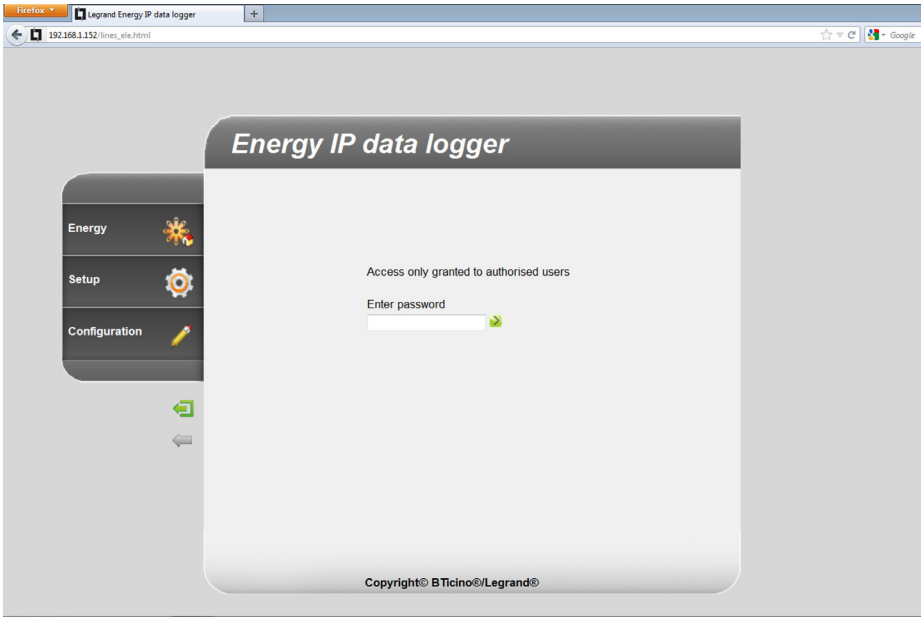
3 Configuration

3.1 Procedure with Windows 2000 or XP operating system

If the connection is correct, it will be possible to display the device in the My Network Places window, with the name "Energy Data Logger".


My Network Places
File Edit View Favorites Tools Help
Back Search Folders
Address My Network Places
Go
Network Tasks
Add a network place
View network connections
Set up a home or small office network
Set up a wireless network for a home or small office
Energy Data Logger

Double click on the icon to open the configuration WEB page.

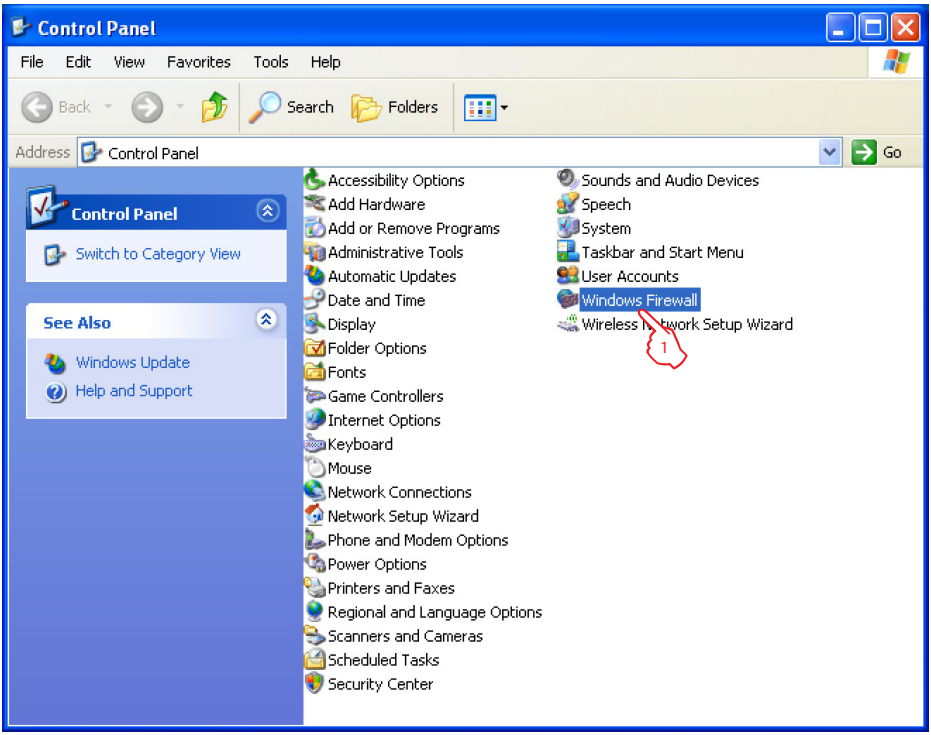


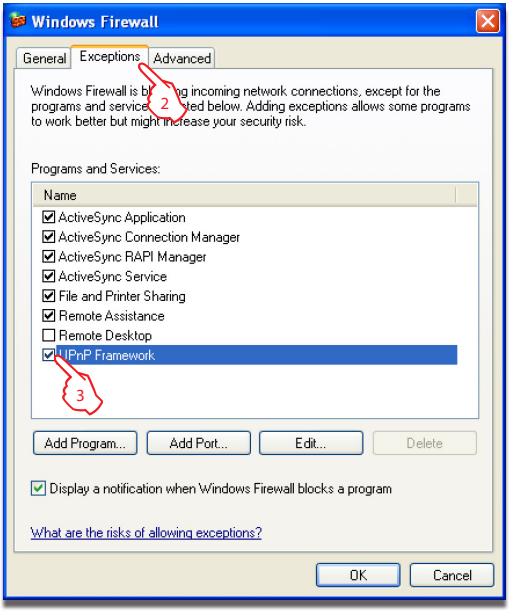
The Web pages can be accessed with two authority levels: "**user**" and as "**administrator**". In addition to having access to the same pages as the user, the administrator can also access the "**Configuration**" function and define some Data Logger parameters. Ask your installer for the access passwords, if this has not already been provided.
To learn how to navigate through the web pages refer to the user manual.

If the device is not automatically recognised by the PC, follow the instructions below. To access the configuration page, and display the device IP address, the following parameters must be set:

From the **Start / Control panel** menu

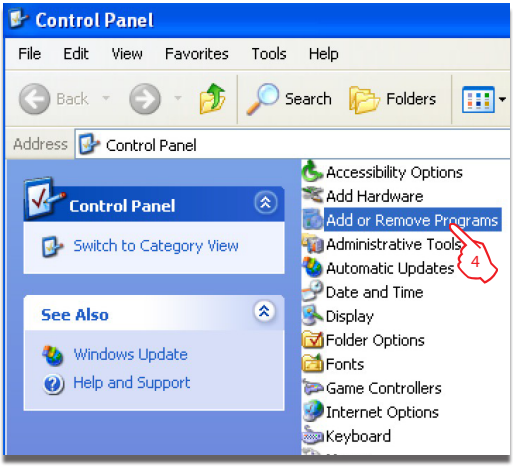
1 - Click "**Windows Firewall**".





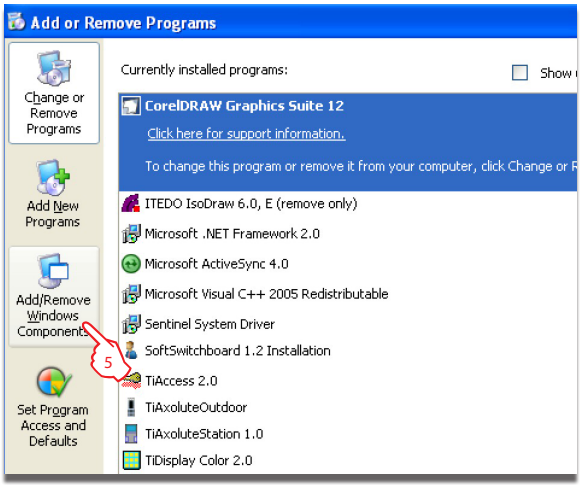
2 - Select "**Exceptions**".

3 - Enable "**UPnP Framework**".

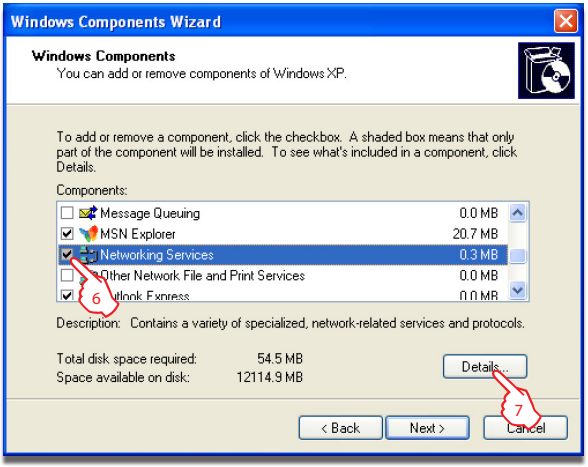


From the
Start / Control panel menu

4 - Click "**Add or Remove Programs**".

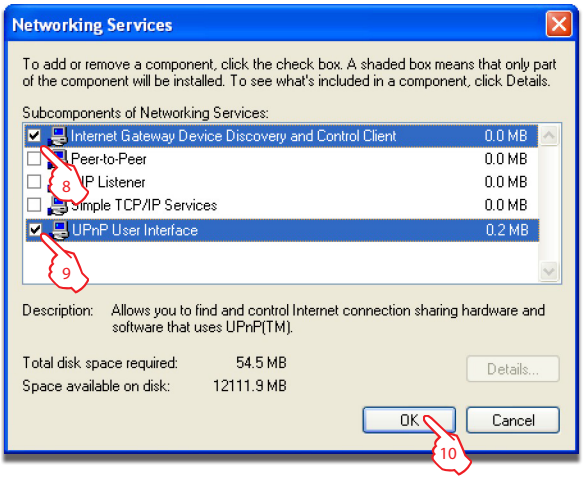


5 - Click "**Add/Remove Windows components**".


Windows Components Wizard
Windows Components
You can add or remove components of Windows XP.
To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Components:
Message Queuing 0.0 MB
MSN Explorer 20.7 MB
Networking Services 0.3 MB
Other Network File and Print Services 0.0 MB
Outlook Express 0.0 MB
Description: Contains a variety of specialized, network-related services and protocols.
Total disk space required: 54.5 MB
Space available on disk: 12114.9 MB
Details...
< Back
Next >
Cancel
6
7

6 - Enable "**Networking services**"

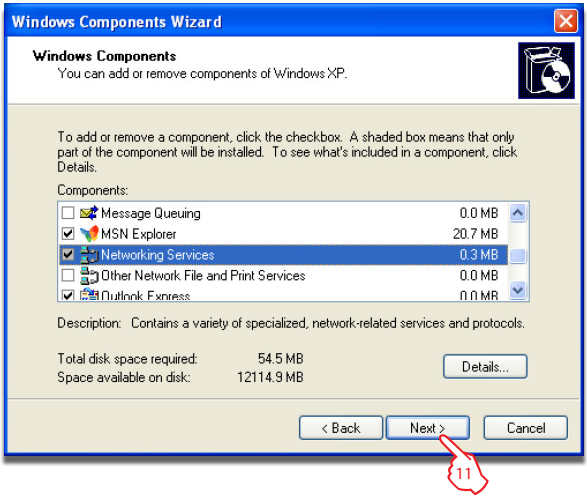
7 - Click "**Details**".


Networking Services
To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Subcomponents of Networking Services:
Internet Gateway Device Discovery and Control Client 0.0 MB
Peer-to-Peer 0.0 MB
IP Listener 0.0 MB
Simple TCP/IP Services 0.0 MB
UPnP User Interface 0.2 MB
8
9
Description: Allows you to find and control Internet connection sharing hardware and software that uses UPnP(TM).
Total disk space required: 54.5 MB
Space available on disk: 12111.9 MB
Details...
OK
Cancel
10

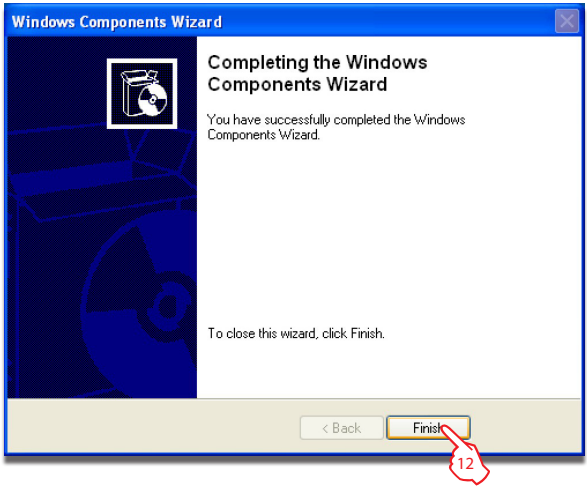
8 - Enable "**Internet Gateway Device Discovery and Control Client**".

9 - Enable "**UPnP User Interface**".

10 - Click.


Windows Components Wizard
Windows Components
You can add or remove components of Windows XP.
To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Components:
Message Queuing 0.0 MB
MSN Explorer 20.7 MB
Networking Services 0.3 MB
Other Network File and Print Services 0.0 MB
Outlook Express 0.0 MB
Description: Contains a variety of specialized, network-related services and protocols.
Total disk space required: 54.5 MB
Space available on disk: 12114.9 MB
Details...
< Back
Next >
Cancel
11

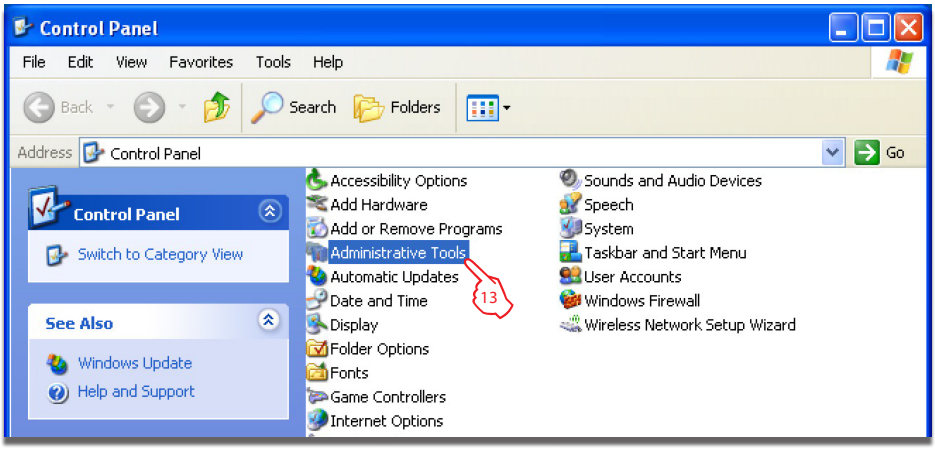
11 - Click.

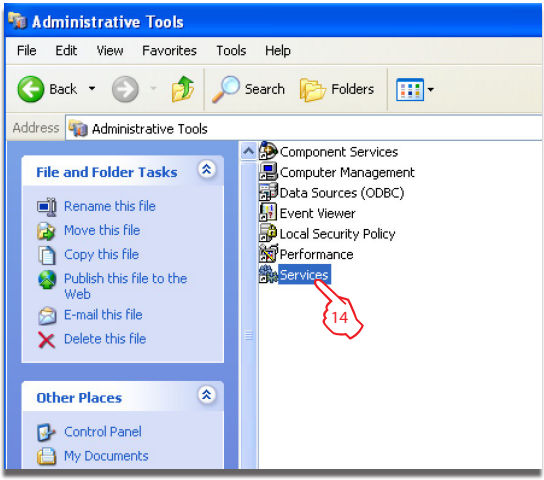


12 - Click "**Finish**".

From the **Start / Control panel** menu

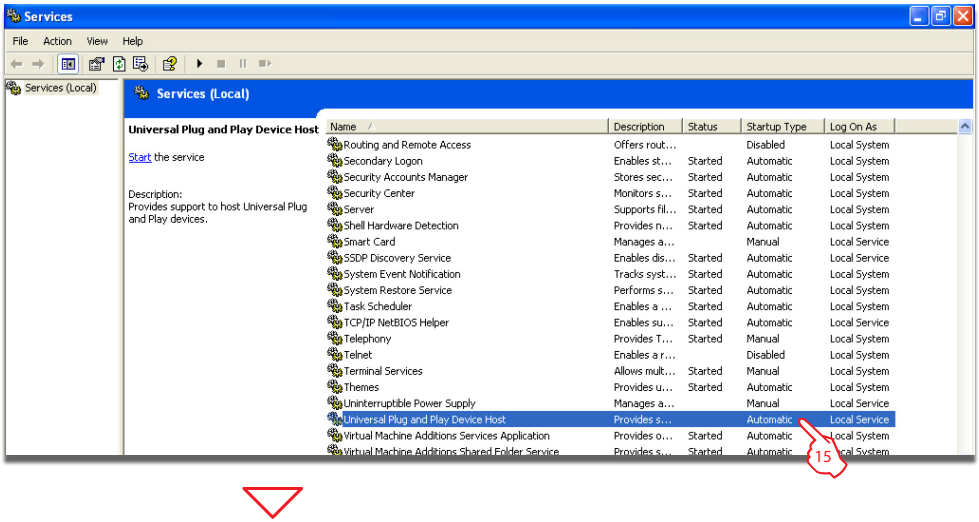
13 - Click "**Administrative Tools**".

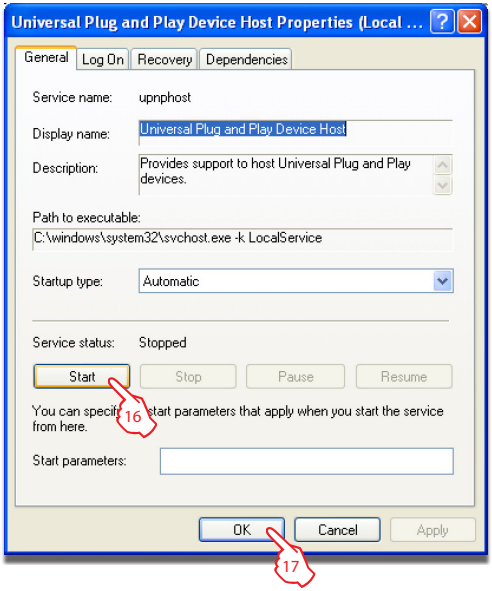




14 - Click "**Services**".

15 - Set Automatic Startup Type for "**Universal Plug and Play Device Host**".

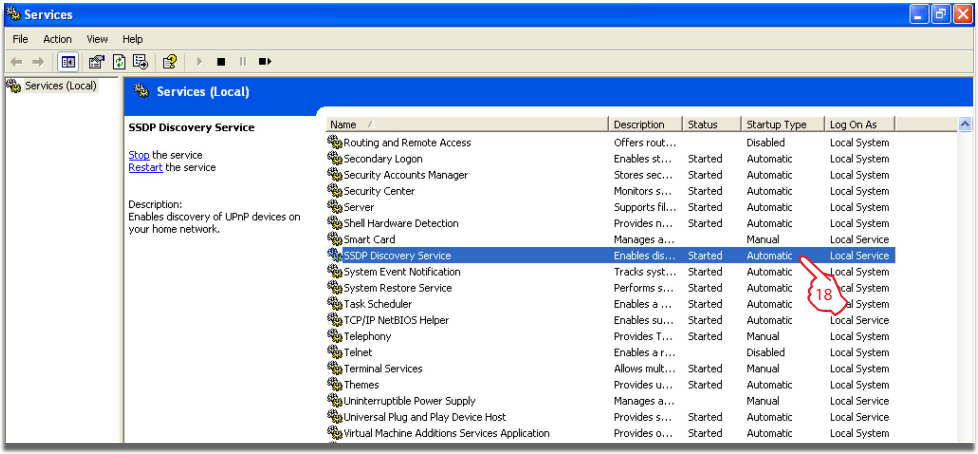

Services
File Action View Help
Services (Local)
Services (Local)
Universal Plug and Play Device Host
Start the service
Description:
Provides support to host Universal Plug and Play devices.
Name
Description
Status
Startup Type
Log On As
Routing and Remote Access Offers rout... Disabled Local System
Secondary Logon Enables st... Started Automatic Local System
Security Accounts Manager Stores sec... Started Automatic Local System
Security Center Monitors s... Started Automatic Local System
Server Supports fil... Started Automatic Local System
Shell Hardware Detection Provides n... Started Automatic Local System
Smart Card Manages a... Manual Local Service
SSDP Discovery Service Enables dis... Started Automatic Local Service
System Event Notification Tracks syst... Started Automatic Local System
System Restore Service Performs s... Started Automatic Local System
Task Scheduler Enables a ... Started Automatic Local System
TCP/IP NetBIOS Helper Enables su... Started Automatic Local Service
Telephony Provides T... Started Manual Local System
Telnet Enables a r... Disabled Local System
Terminal Services Allows mult... Started Manual Local System
Themes Provides u... Started Automatic Local System
Uninterruptible Power Supply Manages a... Manual Local Service
Universal Plug and Play Device Host Provides s... Automatic Local Service
Virtual Machine Additions Services Application Provides o... Started Automatic Local System
Virtual Machine Additions Shared Folder Service Provides s... Started Automatic Local System
15

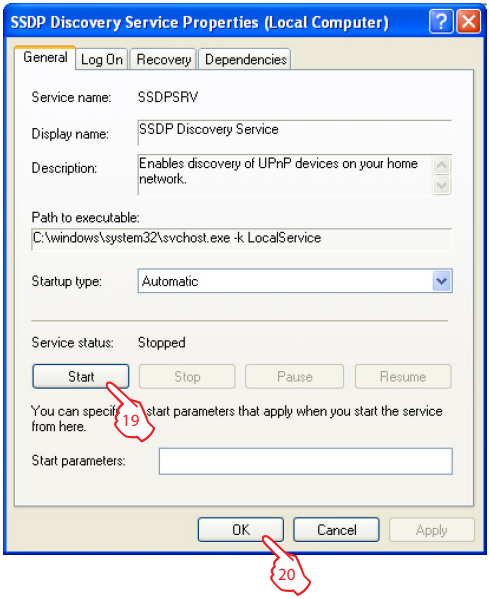


16 - Click "**Start**"

17 - Click.

18 - Set Automatic Startup Type for "**SSDP Discovery Service**".


Services
File Action View Help
Services (Local)
Services (Local)
SSDP Discovery Service
Stop the service
Restart the service
Description:
Enables discovery of UPnP devices on your home network.
Name
Description
Status
Startup Type
Log On As
Routing and Remote Access Offers rout... Disabled Local System
Secondary Logon Enables st... Started Automatic Local System
Security Accounts Manager Stores sec... Started Automatic Local System
Security Center Monitors s... Started Automatic Local System
Server Supports fil... Started Automatic Local System
Shell Hardware Detection Provides n... Started Automatic Local System
Smart Card Manages a... Manual Local Service
SSDP Discovery Service Enables dis... Started Automatic Local Service
System Event Notification Tracks syst... Started Automatic Local System
System Restore Service Performs s... Started Automatic Local System
Task Scheduler Enables a ... Started Automatic Local System
TCP/IP NetBIOS Helper Enables su... Started Automatic Local Service
Telephony Provides T... Started Manual Local System
Telnet Enables a r... Disabled Local System
Terminal Services Allows mult... Started Manual Local System
Themes Provides u... Started Automatic Local System
Uninterruptible Power Supply Manages a... Manual Local Service
Universal Plug and Play Device Host Provides s... Started Automatic Local Service
Virtual Machine Additions Services Application Provides o... Started Automatic Local System
18

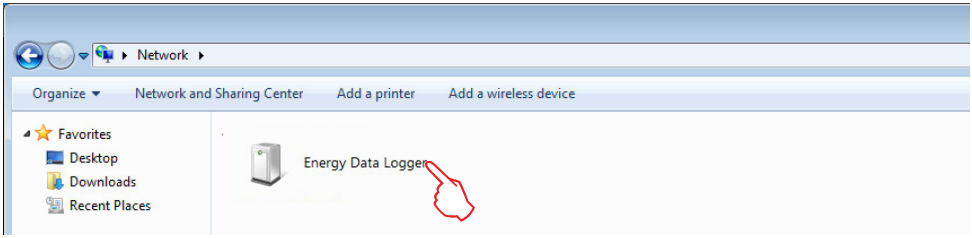


19 - Click "**Start**".

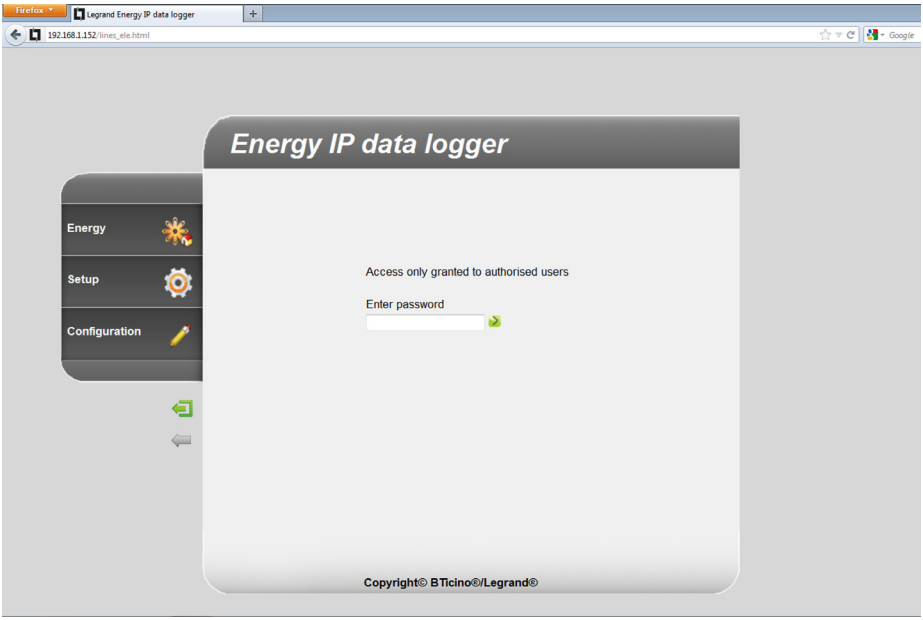
20 - Click.

3.2 Procedure with Windows Vista or 7 operating system

If the connection is correct, it will be possible to display the device in the My Network Places window, with the name "Energy Data Logger".

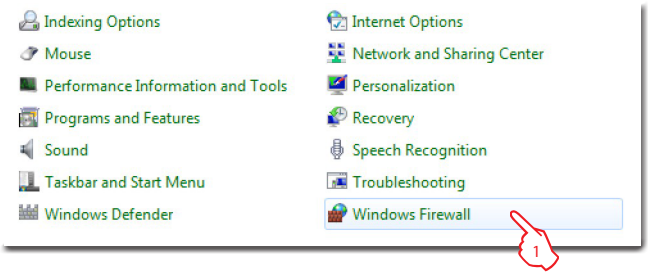


Double click on the icon to open the configuration WEB page.

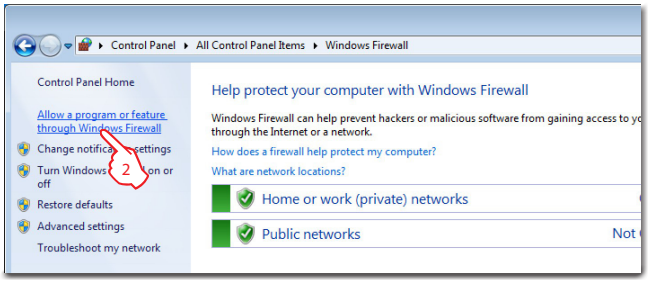


The Web pages can be accessed with two authority levels: "**user**" and as "**administrator**". In addition to having access to the same pages as the user, the administrator can also access the "**Configuration**" function and define some Data Logger parameters. Ask your installer for the access passwords, if this has not already been provided.
To learn how to navigate through the web pages refer to the user manual.

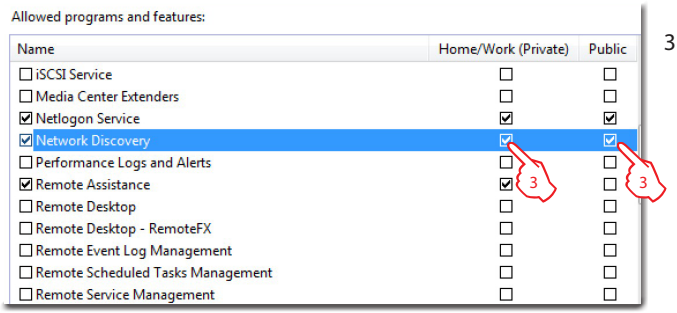
If the device is not automatically recognised by the PC, follow the instructions below. To access the configuration page, and display the device IP address, the following parameters must be set:



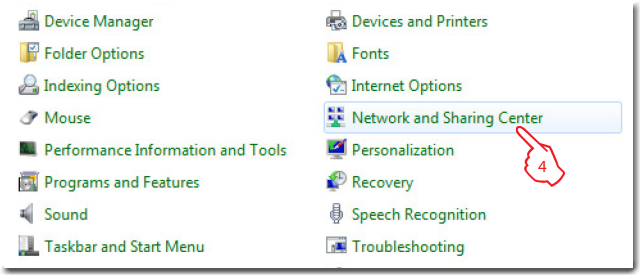
From the
Start / Control panel menu
1 - Click "**Windows Firewall**".


Control Panel ▸ All Control Panel Items ▸ Windows Firewall
Control Panel Home
Allow a program or feature through Windows Firewall
Change notification settings
Turn Windows Firewall on or off
Restore defaults
Advanced settings
Troubleshoot my network
Help protect your computer with Windows Firewall
Windows Firewall can help prevent hackers or malicious software from gaining access to your computer through the Internet or a network.
How does a firewall help protect my computer?
What are network locations?
Home or work (private) networks
Public networks
2

2 - Click "**Allow a program or feature through Windows Firewall**".

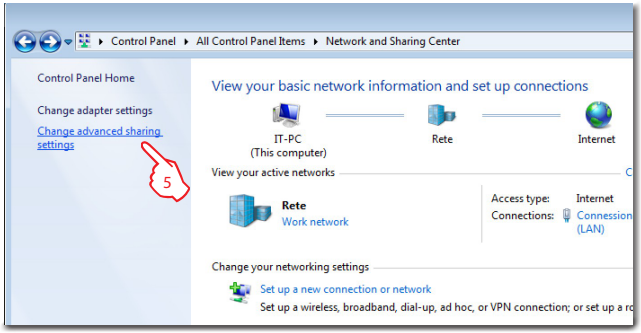


3 - Enable both Public and Private "**Network Discovery**".

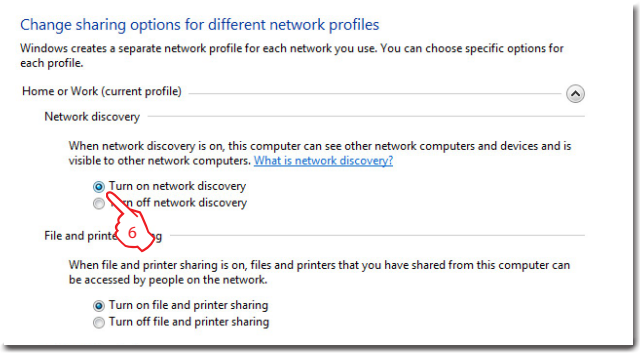


From the
Start / Control panel menu

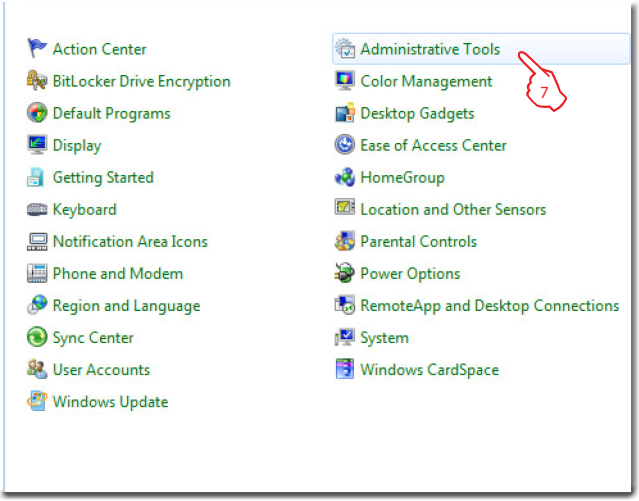
4 - Click "**Network and Sharing Center**"


Control Panel ▸ All Control Panel Items ▸ Network and Sharing Center
Control Panel Home
Change adapter settings
Change advanced sharing settings
5
View your basic network information and set up connections
IT-PC
(This computer)
Rete
Internet
View your active networks
Rete
Work network
Access type: Internet
Connections: Connession (LAN)
Change your networking settings
Set up a new connection or network
Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a

5 - Click "**Change advanced sharing settings**"

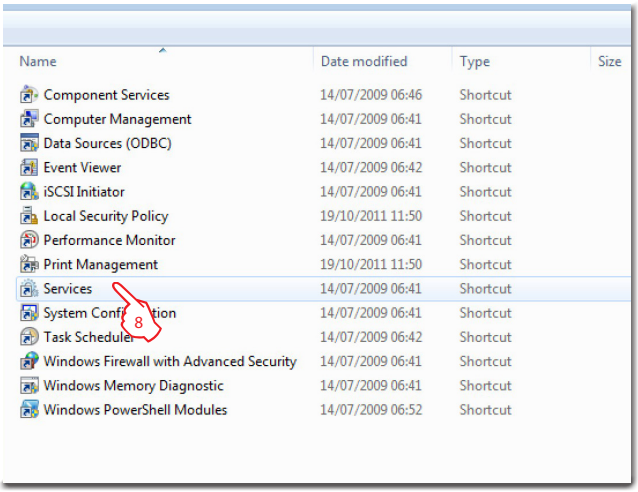

Change sharing options for different network profiles
Windows creates a separate network profile for each network you use. You can choose specific options for each profile.
Home or Work (current profile)
Network discovery
When network discovery is on, this computer can see other network computers and devices and is visible to other network computers. What is network discovery?
Turn on network discovery
Turn off network discovery
6
File and printer sharing
When file and printer sharing is on, files and printers that you have shared from this computer can be accessed by people on the network.
Turn on file and printer sharing
Turn off file and printer sharing

6 - Turn on "**Network discovery**"



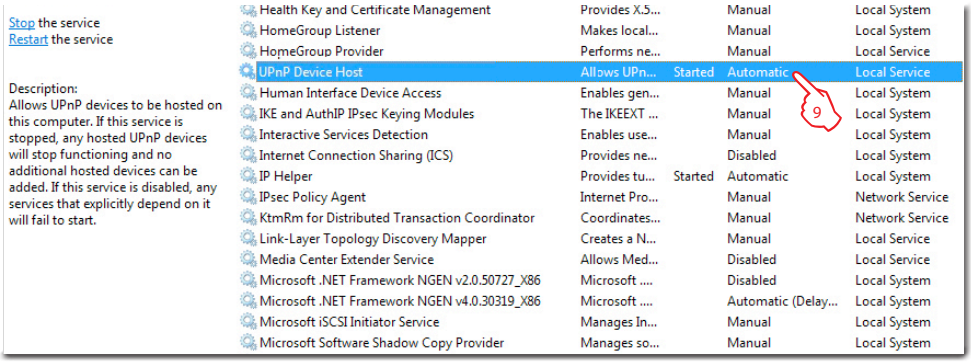
From the
Start / Control panel menu

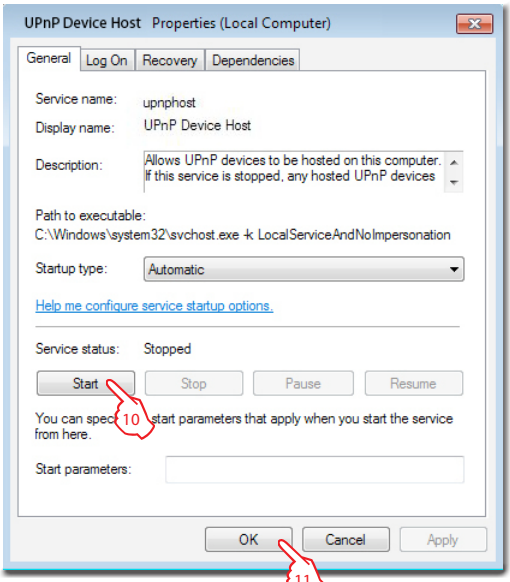
7 - Click "**Administrative Tools**"


Name
Date modified
Type
Size
Component Services 14/07/2009 06:46 Shortcut
Computer Management 14/07/2009 06:41 Shortcut
Data Sources (ODBC) 14/07/2009 06:41 Shortcut
Event Viewer 14/07/2009 06:42 Shortcut
iSCSI Initiator 14/07/2009 06:41 Shortcut
Local Security Policy 19/10/2011 11:50 Shortcut
Performance Monitor 14/07/2009 06:41 Shortcut
Print Management 19/10/2011 11:50 Shortcut
Services 14/07/2009 06:41 Shortcut
Task Scheduler 14/07/2009 06:42 Shortcut
Windows Firewall with Advanced Security 14/07/2009 06:41 Shortcut
Windows Memory Diagnostic 14/07/2009 06:41 Shortcut
Windows PowerShell Modules 14/07/2009 06:52 Shortcut
8

8 - Click "**Services**".

9 - Set Automatic Startup Type for item "**UPnP Device Host**" and ensure that it has actually been enabled.

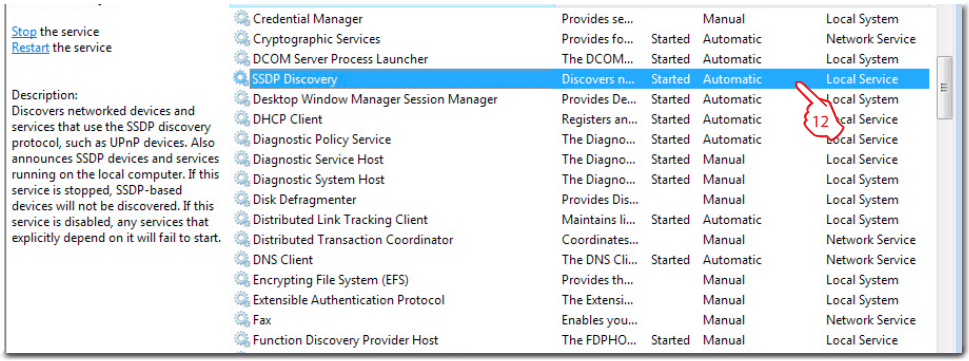

Stop the service
Restart the service
Description:
Allows UPnP devices to be hosted on this computer. If this service is stopped, any hosted UPnP devices will stop functioning and no additional hosted devices can be added. If this service is disabled, any services that explicitly depend on it will fail to start.
Health Key and Certificate Management Provides X.5... Manual Local System
HomeGroup Listener Makes local... Manual Local System
HomeGroup Provider Performs ne... Manual Local Service
UPnP Device Host Allows UPn... Started Automatic Local Service
Human Interface Device Access Enables gen... Manual Local System
IKE and AuthIP IPsec Keying Modules The IKEEXT ... Manual Local System
Interactive Services Detection Enables use... Manual Local System
Internet Connection Sharing (ICS) Provides ne... Disabled Local System
IP Helper Provides tu... Started Automatic Local System
IPsec Policy Agent Internet Pro... Manual Network Service
KtmRm for Distributed Transaction Coordinator Coordinates... Manual Network Service
Link-Layer Topology Discovery Mapper Creates a N... Manual Local Service
Media Center Extender Service Allows Med... Disabled Local Service
Microsoft .NET Framework NGEN v2.0.50727_X86 Microsoft .... Disabled Local System
Microsoft .NET Framework NGEN v4.0.30319_X86 Microsoft .... Automatic (Delay... Local System
Microsoft iSCSI Initiator Service Manages In... Manual Local System
Microsoft Software Shadow Copy Provider Manages so... Manual Local System
9

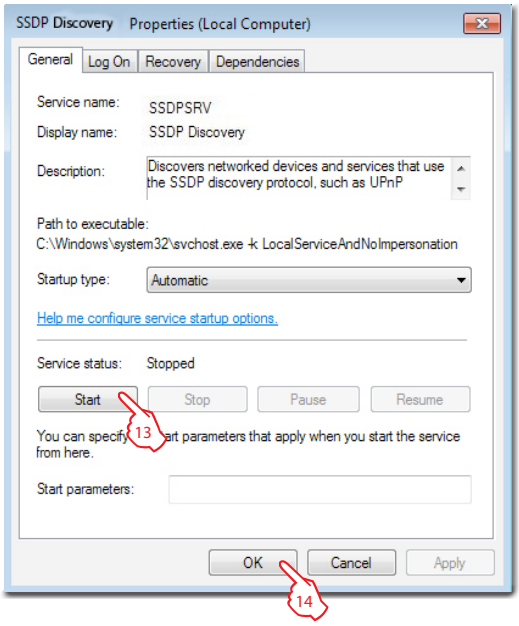


10 - Click "**Start**".

11 - Click.

12 - Set Automatic Startup Type for item "**SSDP Discovery**" and ensure that it has actually been enabled.


Stop the service
Restart the service
Description:
Discovers networked devices and services that use the SSDP discovery protocol, such as UPnP devices. Also announces SSDP devices and services running on the local computer. If this service is stopped, SSDP-based devices will not be discovered. If this service is disabled, any services that explicitly depend on it will fail to start.
Credential Manager Provides se... Manual Local System
Cryptographic Services Provides fo... Started Automatic Network Service
DCOM Server Process Launcher The DCOM... Started Automatic Local System
SSDP Discovery Discovers n... Started Automatic Local Service
Desktop Window Manager Session Manager Provides De... Started Automatic Local System
DHCP Client Registers an... Started Automatic Local Service
Diagnostic Policy Service The Diagno... Started Automatic Local Service
Diagnostic Service Host The Diagno... Started Manual Local Service
Diagnostic System Host The Diagno... Started Manual Local System
Disk Defragmenter Provides Dis... Manual Local System
Distributed Link Tracking Client Maintains li... Started Automatic Local System
Distributed Transaction Coordinator Coordinates... Manual Network Service
DNS Client The DNS Cli... Started Automatic Network Service
Encrypting File System (EFS) Provides th... Manual Local System
Extensible Authentication Protocol The Extensi... Manual Local System
Fax Enables you... Manual Network Service
Function Discovery Provider Host The FDPHO... Started Manual Local Service
12



13 - Click "**Start**".

14 - Click.

3.3 Procedure for Tablet and Smartphone

If viewing the pages using a Tablet or a Smartphone, it is recommend to set fixed IP and IP mask; in alternative, use an application for the identification of UPnP devices.

3.4 Troubleshooting

Problem	Solution
When directly connected to the PC, the device cannot be displayed among the system resources.	Power the device by pressing and holding down the reset key until the red LED starts flashing: initialisation of the device will start, and the following parameters will be set: IP address: 192.168.1.5 IP Mask: 255.255.255.0 It will now be possible to connect to the device and reconfigure the parameters.
The device web pages are not correctly displayed	1. In the browser parameters enable "Compatibility mode"; 2. Delete the browser history, including, including "Temporary files/cache".

Note: the device has been tested with the following browser versions:

Internet Explorer	7 (on Windows XP) and 9 (on windows 7)
Google Chrome	19.0.1084.56
Safari	5.1.7
Mozilla Firefox	12
Opera	11.64

4 Appendix

4.1 Technical data

Power supply from BUS	18 – 27 Vdc
Assorbimento	30 mA (max)
Operating temperature	5 – 45 °C

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